

Redmine - Defect #24433

The changeset display is slow when changeset\_issues has very many records

2016-11-22 14:27 - Hirokazu Onozato

Status:	Closed	Start date:	
Priority:	Normal	Due date:	
Assignee:	Jean-Philippe Lang	% Done:	0%
Category:	Performance	Estimated time:	0.00 hour
Target version:	3.4.0	Affected version:	3.3.0
Resolution:	Fixed		

Description

In issue page, the changeset display is slow when changeset\_issues has very many records.

The following query is executed.

```
SELECT
  `changesets`.*
FROM
  `changesets`
  INNER JOIN `repositories`
    ON `repositories`.`id` = `changesets`.`repository_id`
  INNER JOIN `projects`
    ON `projects`.`id` = `repositories`.`project_id`
  INNER JOIN `changesets_issues`
    ON `changesets`.`id` = `changesets_issues`.`changeset_id`
WHERE
  `changesets_issues`.`issue_id` = 1
  ...
```

There is no INDEX in issue\_id of changesets\_issues table.

- db/schema.rb

```
create_table "changesets_issues", id: false, force: :cascade do |t|
  t.integer "changeset_id", null: false
  t.integer "issue_id",      null: false
end

add_index "changesets_issues", ["changeset_id", "issue_id"], name: "changesets_issues_ids",
unique: true, using: :btree
```

As a result, this query may be slow if there are a very many records in the changesets\_issues table.

When the number of records in the changesets\_issues table was about 1 million, it took 2 or 3 seconds to execute this query. Adding INDEX to issue\_id improved the performance of this query to a few milliseconds.

Associated revisions

Revision 16007 - 2016-11-26 10:51 - Jean-Philippe Lang

Adds an index on issue\_id to changesets\_issues (#24433).

History

#1 - 2016-11-22 15:38 - Toshi MARUYAMA

- Target version set to 3.4.0

#2 - 2016-11-26 10:54 - Jean-Philippe Lang

- Status changed from New to Resolved

- Assignee set to Jean-Philippe Lang

Index added in [r16007](#).

Maybe we should also add an index on changeset\_id to speed up the display of related issues on the changeset view. Do you have performance issues on the changeset view too?

**#3 - 2016-11-26 16:09 - Hirokazu Onozato**

Thank you for fixing.

Maybe we should also add an index on changeset\_id to speed up the display of related issues on the changeset view. Do you have performance issues on the changeset view too?

There is no performance problem in changeset view.  
Multiple column INDEX of changesets\_id and issue\_id seems to be used.

**#4 - 2016-12-03 09:43 - Jean-Philippe Lang**

- Status changed from Resolved to Closed

- Resolution set to Fixed

OK, thanks for your feedback.